Event

MPTS IJET FRM 4401 – FRM 4404 T-45

Mission

CRUISE FORMATION

1.4 HOURS/X

ORM

FRM 4401-04

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
  - **CREW REST/ CREW DAY / WORK WEEK**
  - **WARM-UP ELIGIBILITY**
  - **PREVIOUS FLIGHT COMPLETE?**
  - **IP CURRENCY**
  - **READ AND INITIAL**

- **HUMAN FACTORS**
  - **LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS**
  - **MEDICAL STATUS**
    - **CREW DAY**
    - **CREW REST**
    - **NOURISHMENT**
    - **HYDRATION**

- **HAZARDS AND CONTROLS**
  - **ROUTINE**
  - **WEATHER**
    - **CURRENT OBSERVATIONS AND FORECASTS**
    - **CROSSWINDS**
    - **FUEL CONSIDERATIONS**

TTO

FRM 4401-04

- **WHO WILL CALL A TTO?**

- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
  - **SAFETY**
  - **CONFUSION**
  - **MISUNDERSTANDING**

- **IP RESPONSIBILITIES**
  - **RECOGNIZE THE NEED FOR A TTO**
  - **EXPLANATION / INSTRUCTION AS NECESSARY**
  - **DOCUMENTATION ON ATF**

- **WHEN AND HOW WILL TRAINING RESUME?**

SSR/DISCUSS ITEMS

FRM 4401-04

- **SPECIAL SYLLABUS REQUIRMENTS:**
  - **FRM 4401 – THE IP WILL DEMO THE COLUMN POSITION.**

- **PREREQUISITES:**
  - **FRM 4201**

- **DISCUSS ITEMS:**

  FRM 4401 - 4404
  - **NATOPS/SOP/EP QOD**

SYLLABUS NOTES

FRM 4401-04

A. **THESE EVENTS WILL BE FLOWN FROM THE FRONT COCKPIT**

B. **INITIAL JOIN-UP MAY BE ACCOMPLISHED VIA SECTION TAKEOFF, INTERVAL TAKEOFF, OR TACAN RENDEZVOUS**

C. **THE FOLOWING MANEUVERS WILL BE PERFORMED ON EVERY FLIGHT:**

- **PARADE POSITION WITH TURNS**
- **V CROSSUNDER**
- **BREAK UP AND RENDEZVOUS – 2 X 250 AND 2 X 300**
- **CRUISE POSITION AND MANEUVERING**
- **LEAD CHANGE**

SYLLABUS NOTES

FRM 4401-04

D. STUDENTS MUST FLY THE FOLLOWING MANEUVERS AT A MINIMUM DURING THE BLOCK:

- **SECTION TAKEOFF 2**
- **RUNNING RNDV (MAY BE DONE AT ALT) 1**
- **TACAN RENDEZVOUS 2**
- **UNDERRUN 2**
- **LEAD SECTION APPR/MISSED APPROACH 1**
- **SECTION APPR/MISSED APPROACH (AS WING) 1**
- **SECTION APPR/T+G/REJOIN (AS WING) 1**
- **SECTION BREAK (AS LEAD) 1**
- **PRECAUTIONARY APPROACH (2 DESIRED) 1**

E. SECTION TAKEOFF MUST BE PERFORMED ON FRM 4404 IN ORDER TO PERFORM A SECTION TAKEOFF ON FRM 4501 SOLO.

ADMIN (CARD)

FRM 4401-04

- **A/C – ATC C/S – CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN/LADDER**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**
- **NAV PLAN**

ADMIN

FRM 4401-04

- **LAUNCH**
  - **WEATHER / NOTAMS / TFR / BASH**
  - **PREFLIGHT / START / TAXI**
  - **ENROUTE PROCEDURES**
  - **RADALT USAGE**

- **RTB**
  - **RECOVERY**
  - **DIVERTS**

CONDUCT

FRM 4401-04

- **TIMS RESUME REVIEW**
- **PRACTICE:**
  - **CHECKLISTS/COMM/GROUND OPS**
  - **TAKEOFF/DEPARTURE/FLIGHT ADMIN**
  - **INDIVIDUAL/INTERVAL TAKEOFF**
  - **SECTION TAKEOFF**
  - **DEPARTURE**
  - **DESCENT/FIELD ENTRY**
  - **PARADE**
  - **TURNS/ECHELON**
  - **CROSSUNDER**
  - **LEAD CHANGE**
  - **TACAN RENDEZVOUS**
  - **BREAKUP AND RENDEZVOUS**
  - **UNDERRUN**
  - **RUNNING RENDEZVOUS**
  - **CRUISE**
  - **COLUMN**
  - **FORMATION LEAD**
  - **LEAD SECTION APPROACH/MISSED APPROACH**
  - **SECTION APPROACH/MISSED APPROACH AS WING**
  - **T+G/REJOIN**
  - **SECTION BREAK**
  - **PRECAUTIONARY APPROACH**
  - **VFR LANDING PATTERN**
  - **LANDING/TOUCH-AND-GO**
  - **SPECIAL SYLLABUS REQUIREMENTS**

BLOCK MIF

FRM 4401-04

CTS REF	MANEUVER	FRM4404
1	General Knowledge/Procedures	4+
2	Emergency Procedures	3+
3	Headwork/Situational Awareness	3+
4	Basic Airwork	4+
5	Mission Planning/Briefing/ Debriefing	4+
6	Communications	4+
7	Ground Operations	4+
8	Flight Admin	4+
30 10	Individual/Interval Takeoff	4
30	Section Takeoff	3+
11	Departure	4
13	Descent/Field Entry	4
32	Parade	4+
32	Turns/Echelon	4+
32	Crossunder	3+
32	Lead Change	4+
32	TACAN Rendezvous	4+
32	Breakup and Rendezvous	4+
32	Underrun	4+
32	Running Rendezvous	3+
32	Cruise	3+
32	Column	1+
31	Formation Lead	3+
33	Lead Section Approach/Missed Approach	3+
33	Section Approach/Missed Approach as Wing	4+
33	Section Approach/Touch-and-Go/ Rejoin as Wing	3+
33	Touch-and-Go/Rejoin	3+
32	Section Break	4+
21	Precautionary Approach	3+
22	VFR Landing Pattern	3+
23	Landing/Touch-and-Go	3+
	Special Syllabus Requirements	1

FRM 4401-04

COORDINATION

(ALL AIRCREW)

COORDINATION

FRM 4401-04

ADMIN

- ORM, TTO
- WX, NOTAMS
- TFR, BASH
- KNEEBOARD CARD REVIEW
- START, MARSHAL, TAXI, T/O (SECTION OR 7S) , RNDV
- RTB

TACADMIN

- ALPHA CHECK

COORDINATION

FRM 4401-04

MISSION: MANDATORY MANEUVERS

- **PARADE TURNS**
- **V CROSSUNDERS**
- **LEAD CHANGE**
- **CRUISE POSITION**
- **BREAKUP AND RENDEZVOUS (2X250 / 2X300)**

COORDINATION

FRM 4401-04

AS REQUIRED:

- SECTION TAKEOFF 2
- RUNNING RNDV (MAY BE DONE AT ALT) 1
- TACAN RENDEZVOUS 2
- UNDERRUN 2
- LEAD SECTION APPR/MISSED APPROACH 1
- SECTION APPR/MISSED APPROACH (AS WING) 1
- SECTION APPR/T+G/REJOIN (AS WING) 1
- SECTION BREAK (AS LEAD) 1
- PRECAUTIONARY APPROACH (2 DESIRED) 1

- SPECIAL SYLABUS REQ: IP DEMO COLUMN (4401 ONLY)

Emergencies

FRM 4401-04

- **AIRCRAFT FALLOUT**
- **CLEAR ENGINE PROCEDURE**
- **ABORTED TAKEOFF**
- **RWY DEP / LOSS OF DIRECTIONAL CONTROL**
- **SYSTEM FAILURES/ EPs / CRM**
- **BIRD STRIKE/ MIDAIR**
- **RADIO/ ICS FAILURE**
- **LOSS OF NAVAIDS / LOST PLANE**
- **INADVERTENT IMC / LOST SIGHT / LCLS**
- **DISORIENTATION / VERTIGO**
- **HYPOXIA**
- **EJECTION (HIGH / LOW / GROUND)**
- **SAR / ON SCENE COMMANDER**
- **DIVERT(S) / BINGO FUEL TO DIVERT**
- **UNDERRUN**